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Nanoporous Materials for Catalysis, Molecule Separation and Nanodevices

Guest Editor:

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Message from the Guest Editor

Porous materials have attracted wide interest in terms of both fundamental and applied research. The large internal surface area and adsorbent potential of porous materials have led to their widespread applications, such as in catalysis, separations, drug delivery, and sensing. Engineering of porous materials with dedicated pore structures and surface properties extends the scope of their applications by the incorporation of functional units either in the material frameworks or on the porous surface. This Special Issue aims to receive contributions (in the form of communications, full research articles, and reviews) to update the basis, applications, and perspectives of the functionalization of nanoporous materials with the applications focused on catalysis, molecule separation, and nanodevices.

The scope of the materials to be covered include but are not limited to the following:

- Zeolites and mesoporous silicas;
- Mesoporous carbons and mesoporous metal oxides;
- Metal organic frameworks (MOFs) and covalent organic frameworks (COFs);
- Membranes and hierarchically porous materials

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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